



01-28-06  
23:14:28

C 76  
29

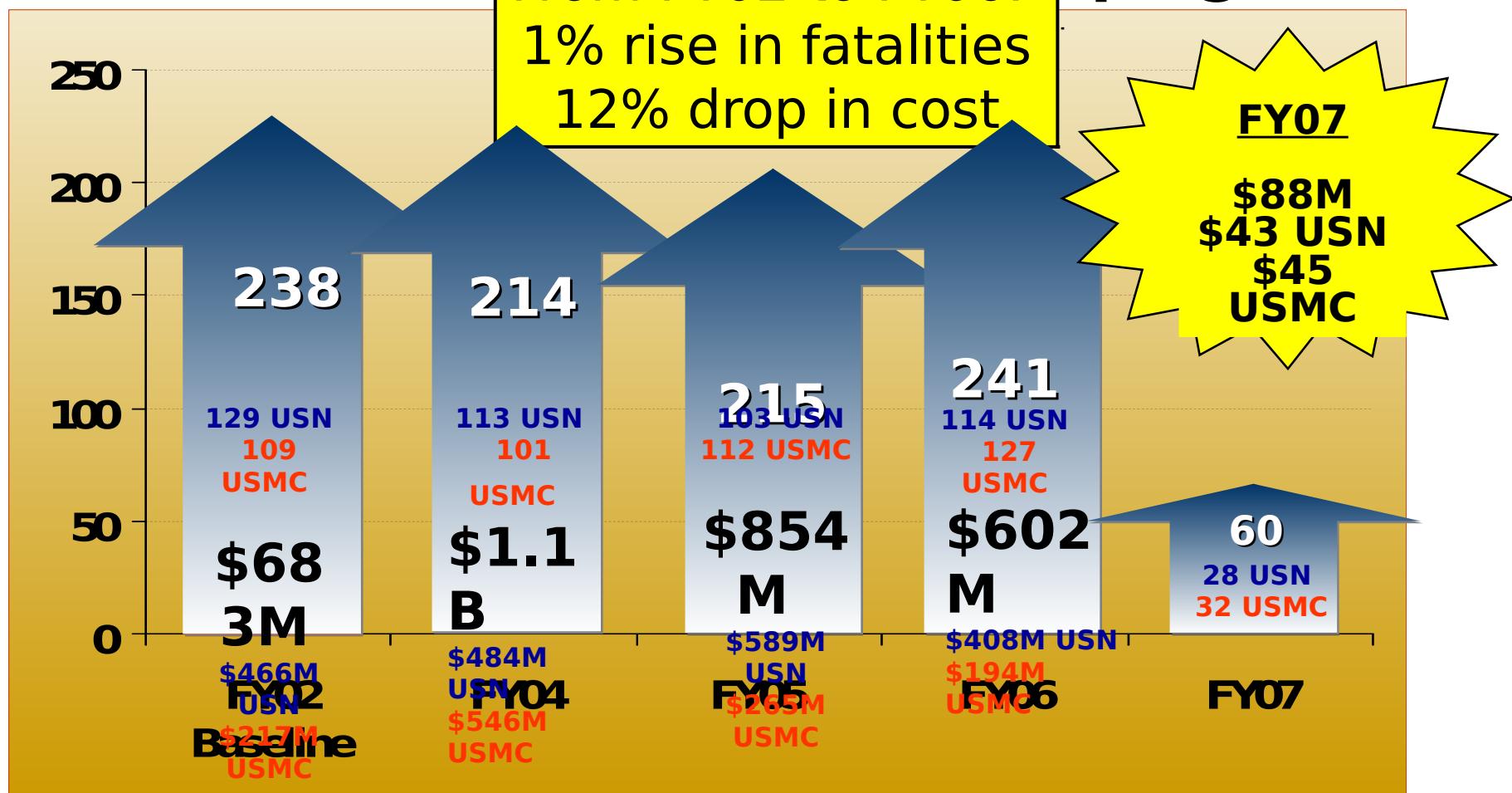
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149

05200 15



# USN/USMC Fatalities & Resources Lost During Mishap Campaign



ENDSTATE GOAL IS ZERO

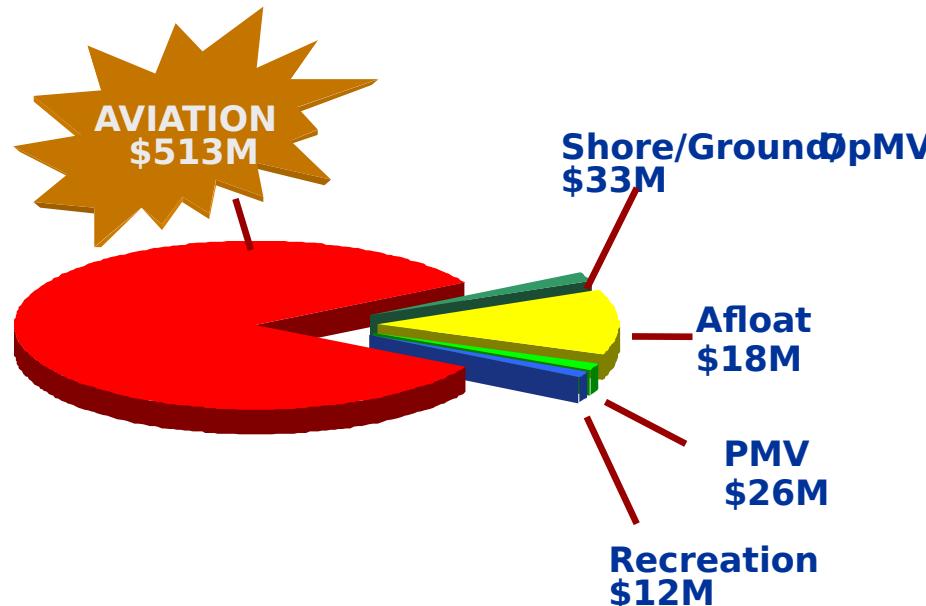
NSC Data: 29 Jan 07



# FY06 Total Cost and Deaths

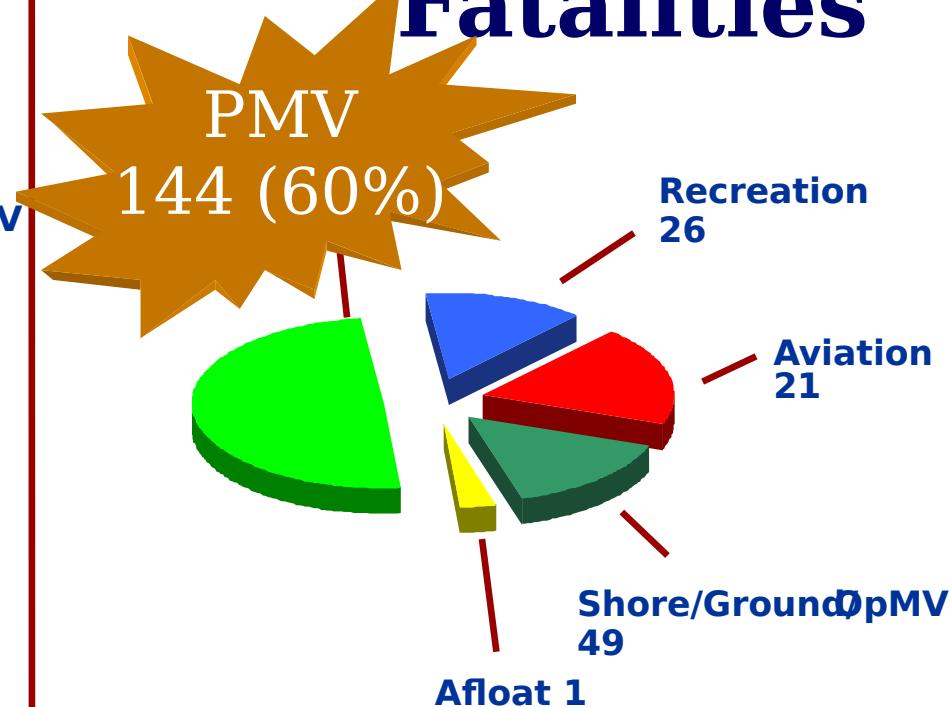
## Navy and Marine Corps

### Cost



**Total Cost: \$602M**

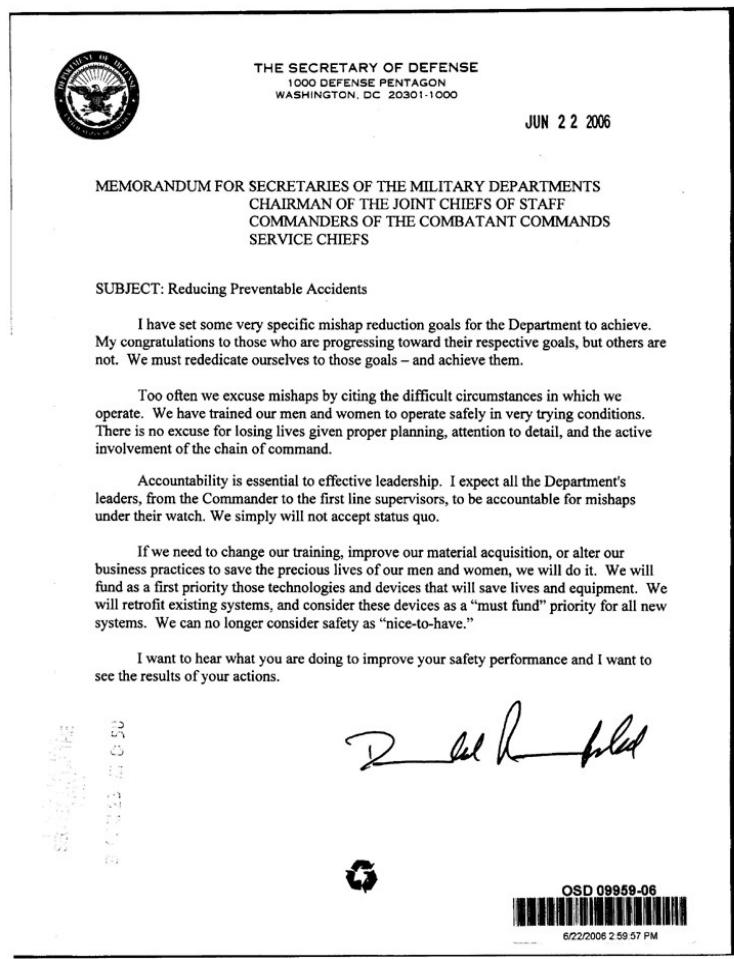
### Fatalities



**Total Fatalities: 241**



# SECRETARY RUMSFELD'S CHALLENGE



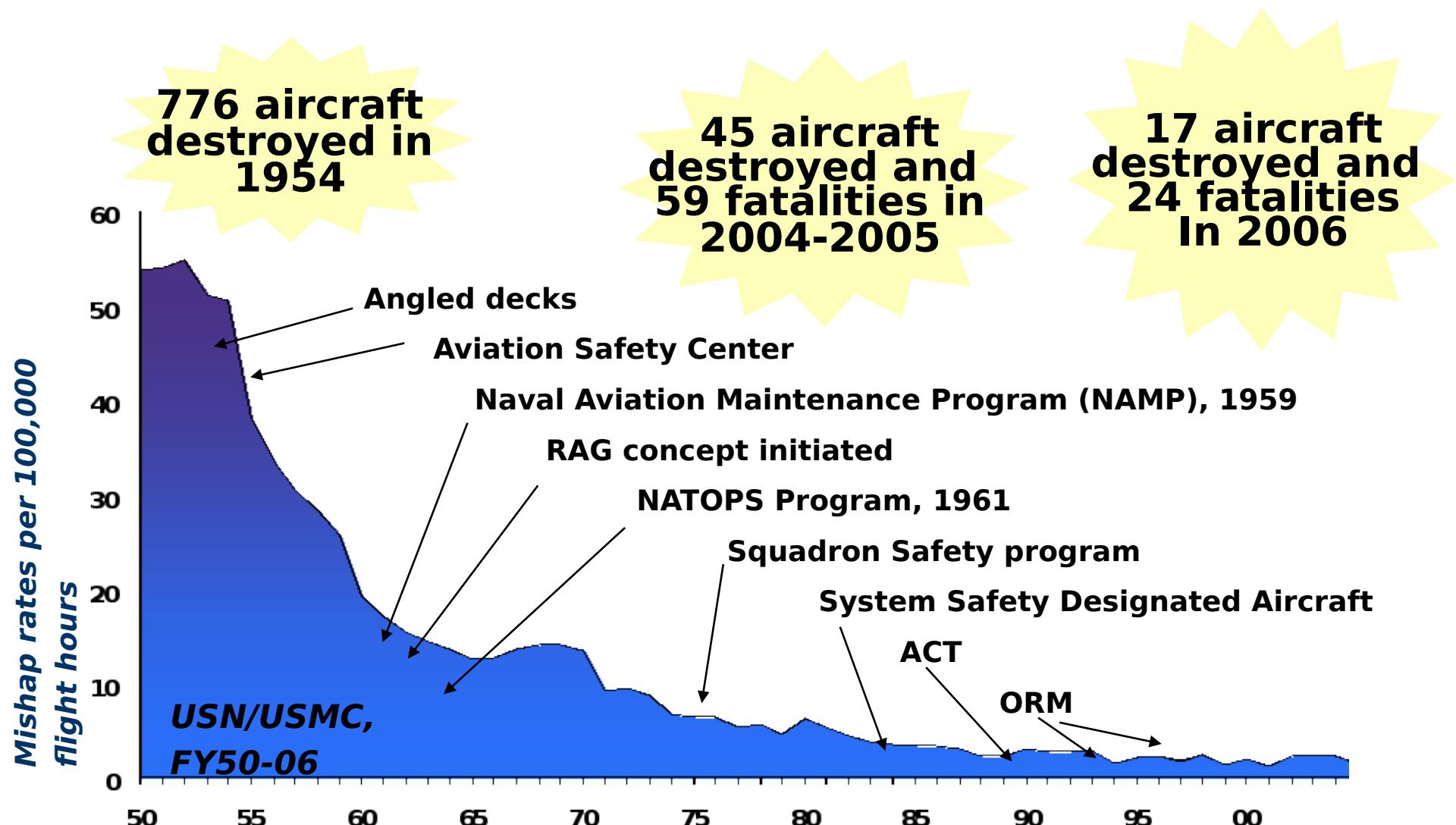
There is no excuse for losing lives... I want to see the results of your

Memorandum from Secretary of Defense, 22 June 2006

ASC February 2007

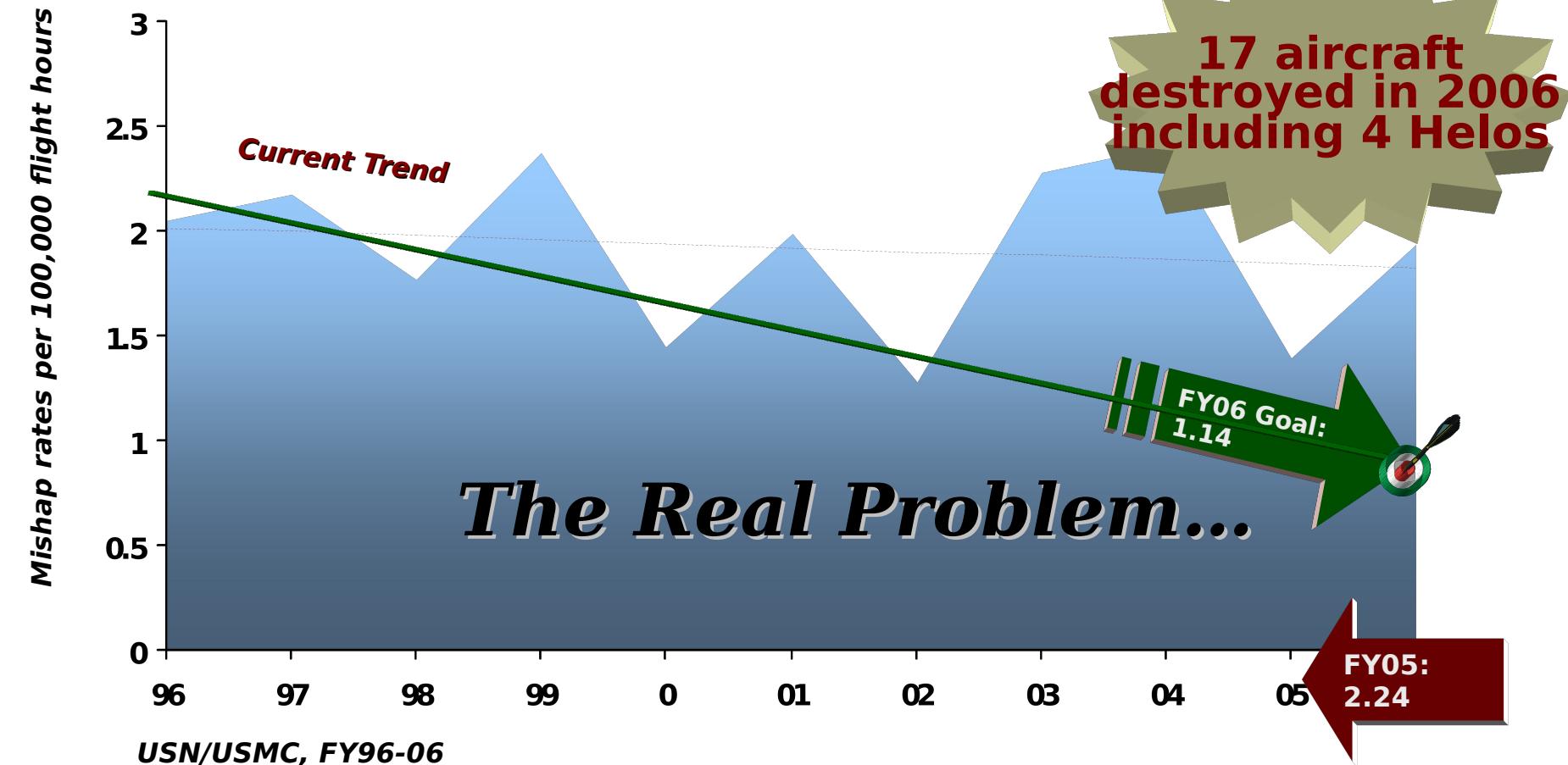


# NAVAL AVIATION HISTORY



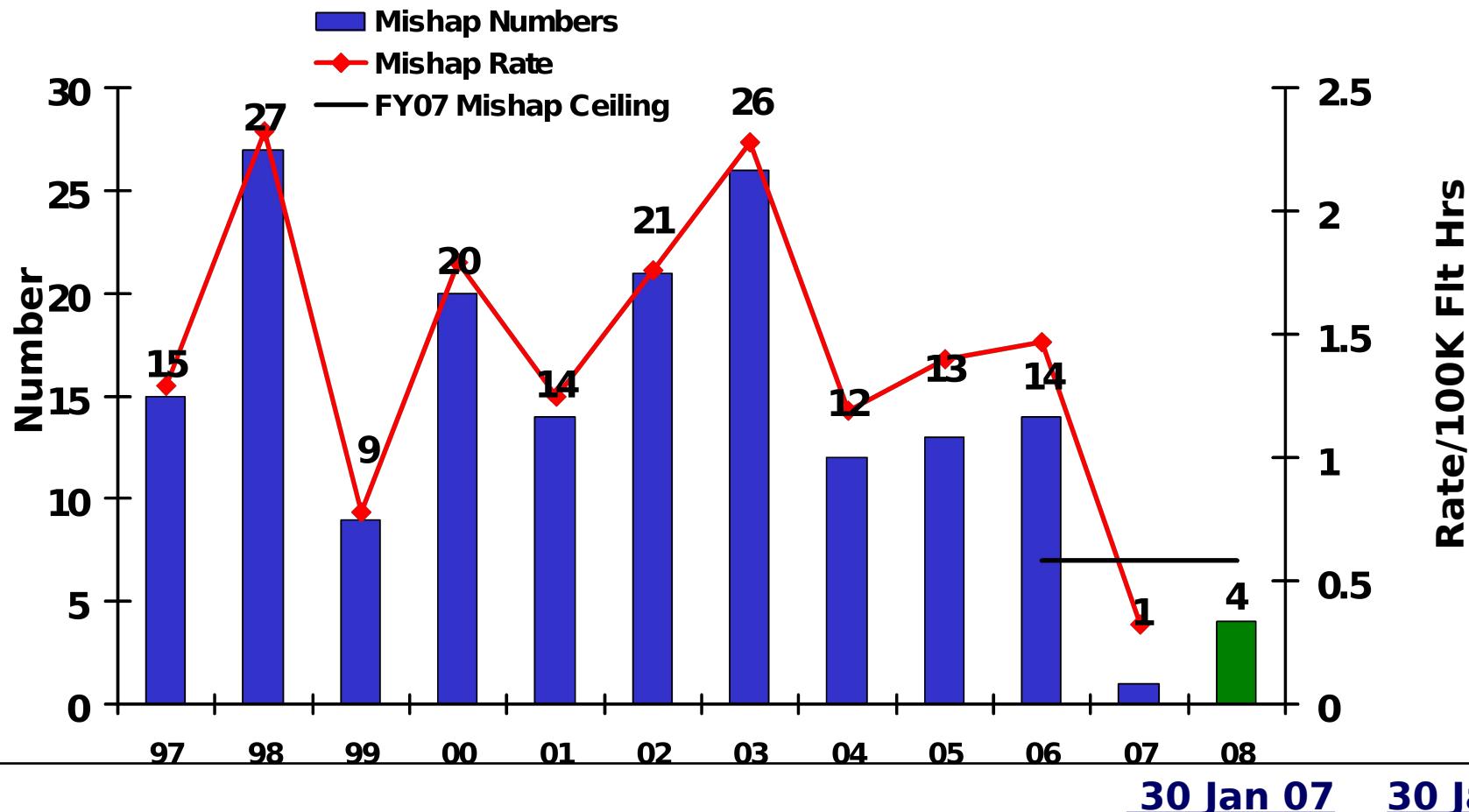


# Naval Aviation Mishap Trend





# CLASS A FLIGHT MISHAPS



06

CLASS A FM/FM RATE FY COMPARISON:

1 / 0.32

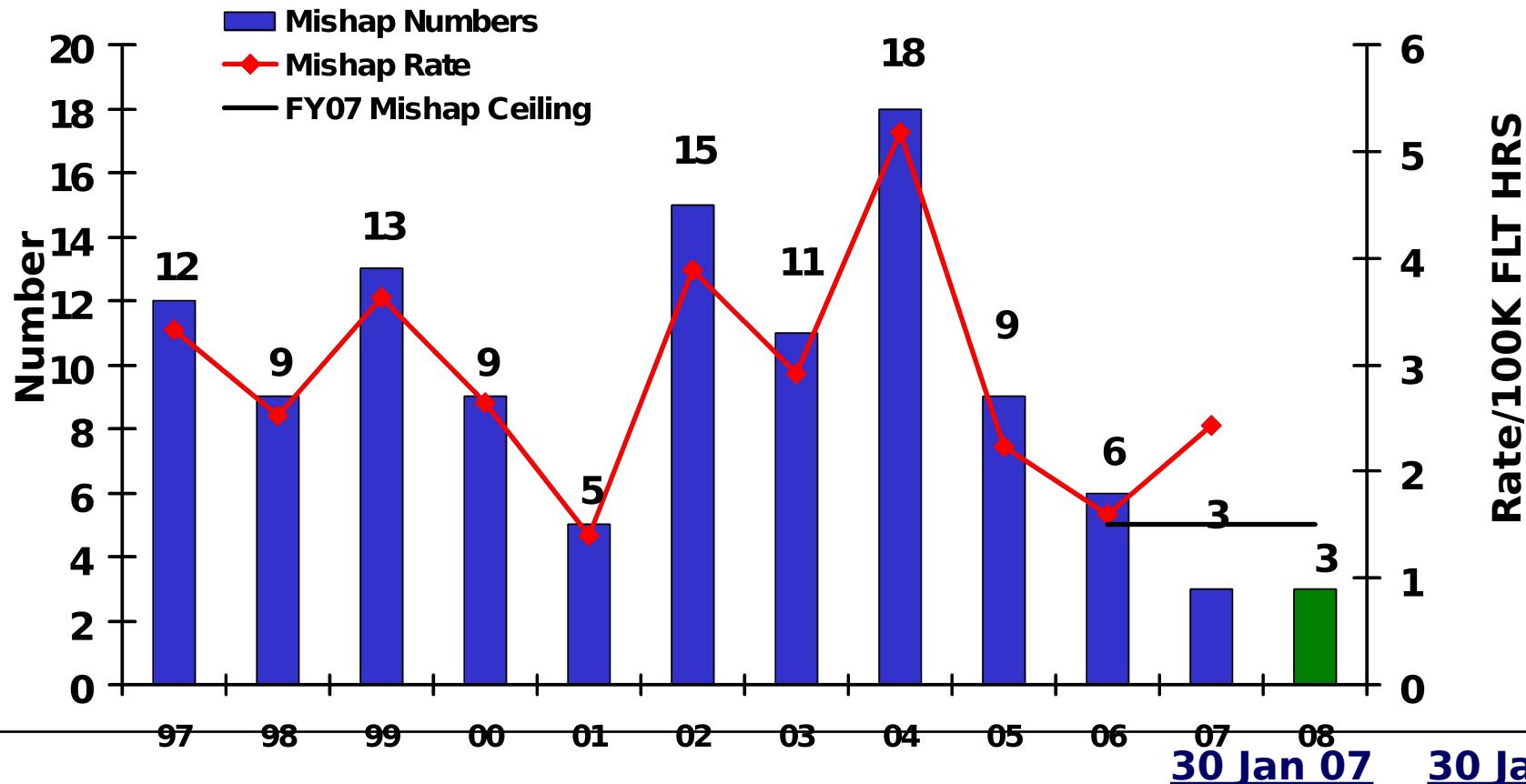
7 / 2.26

FY06 MISHAPS/MISHAP RATE: 14 / 1.47

10-YEAR AVERAGE (FY97-06) MISHAPS/MISHAP RATE: 17.1 / 1.56



# CLASS A FLIGHT MISHAPS



06

0.82

CLASS A FM/FM RATE FY COMPARISON:

3 / 2.43

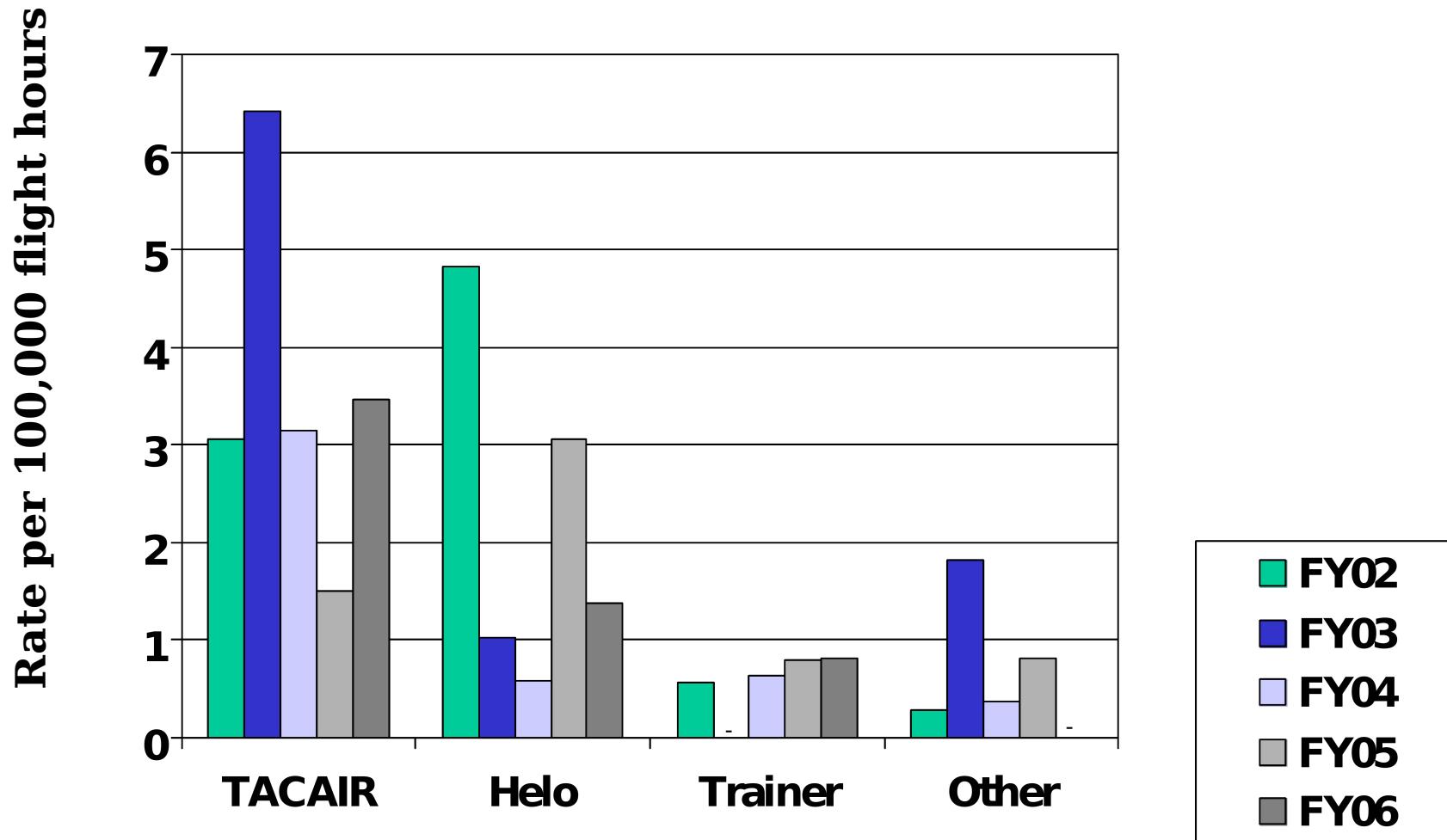
1 /

FY06 MISHAPS/MISHAP RATE: 6 / 1.59

10-YEAR AVERAGE (FY97-06) MISHAPS/MISHAP RATE: 10.7 / 2.92

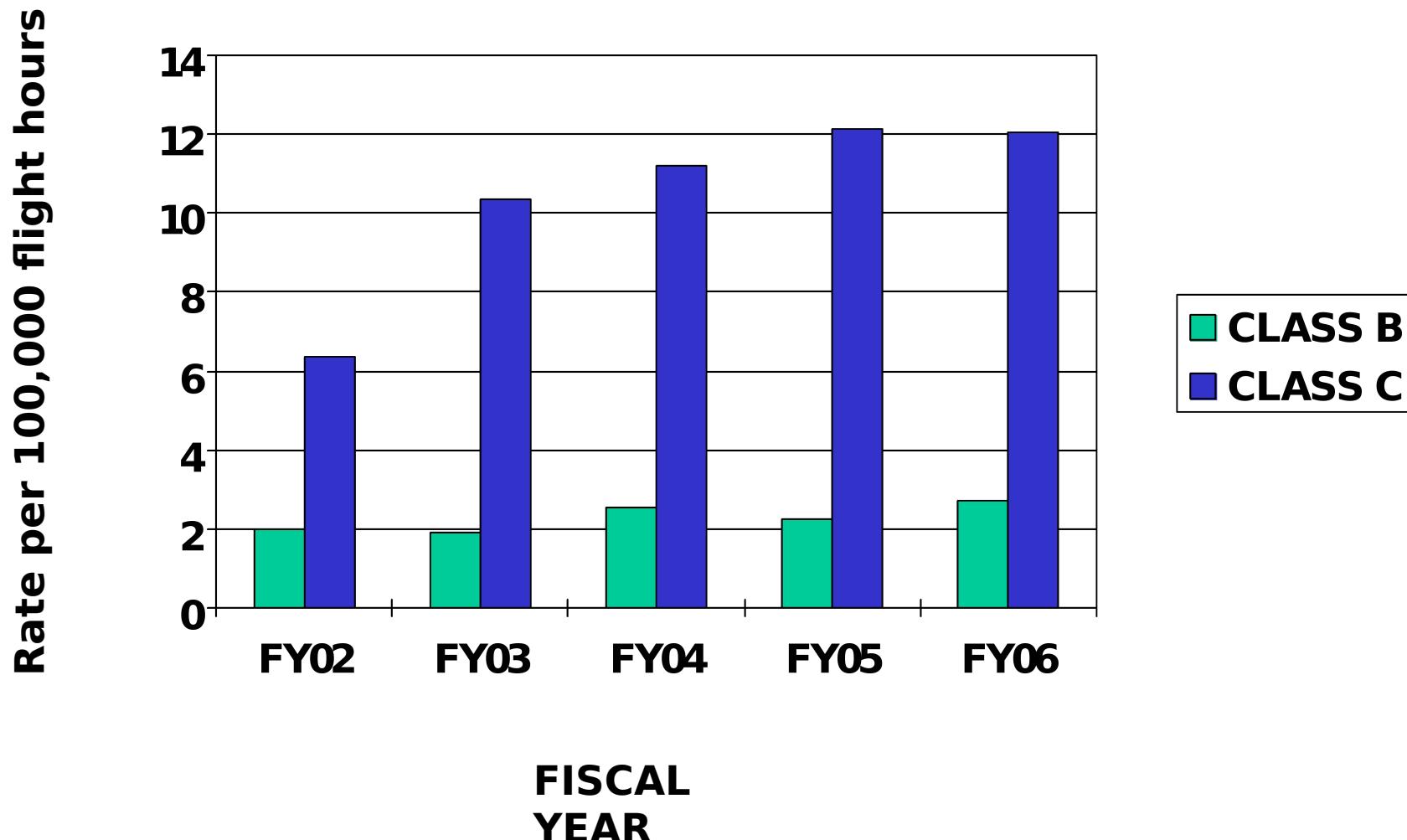


# CLASS A FLIGHT MISHAP RATE



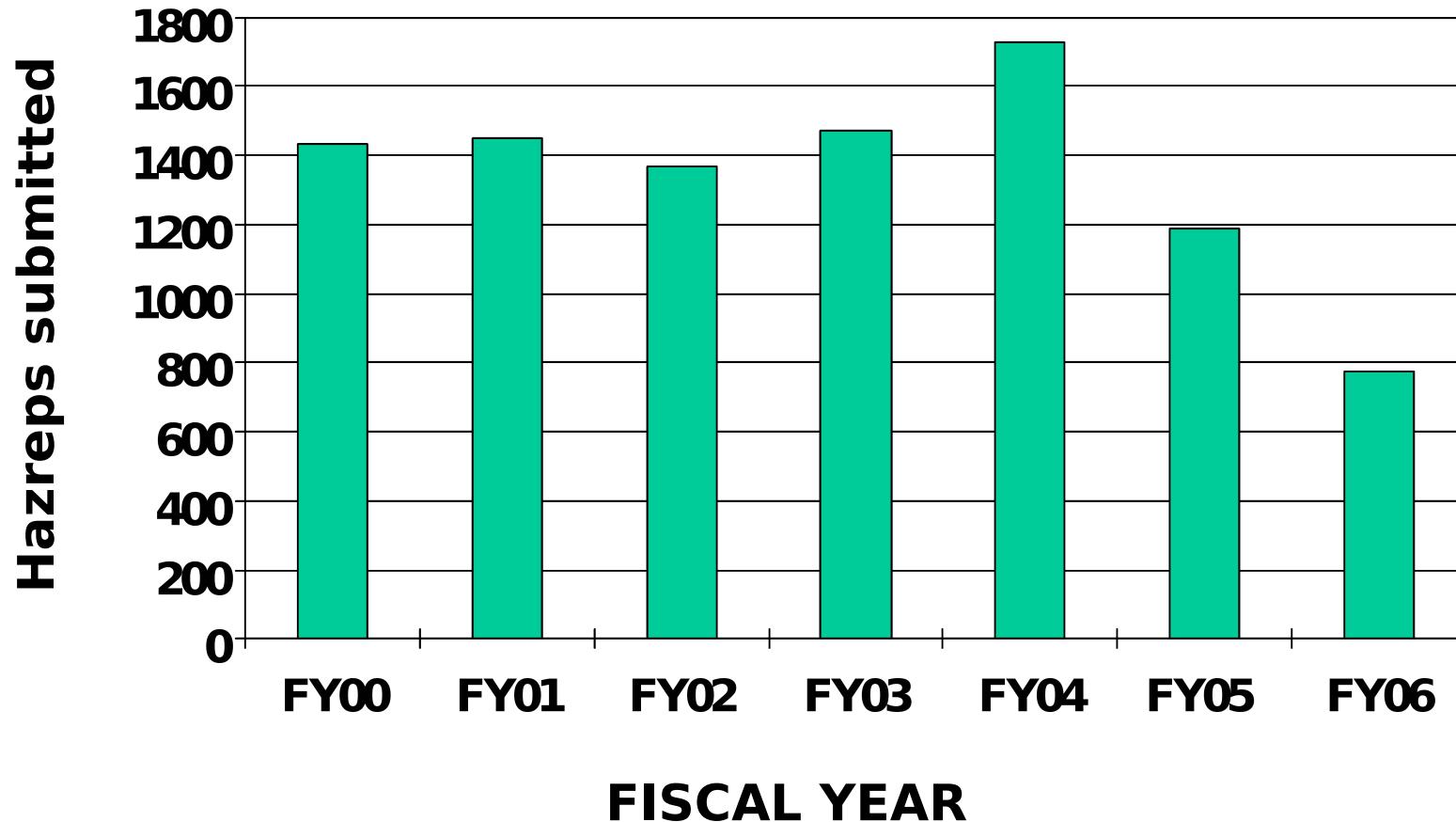


# AVIATION CLASS B/C MISHAP RATE





# AVIATION HAZARD REPORTS





# F-18 Flathatting





# **Tactics to Defeat the “Blue Threat”**

- Blue Threat** - Action/Inaction by own forces causing losses
- Blue Threat** - Losses far exceed **Red Threat** losses



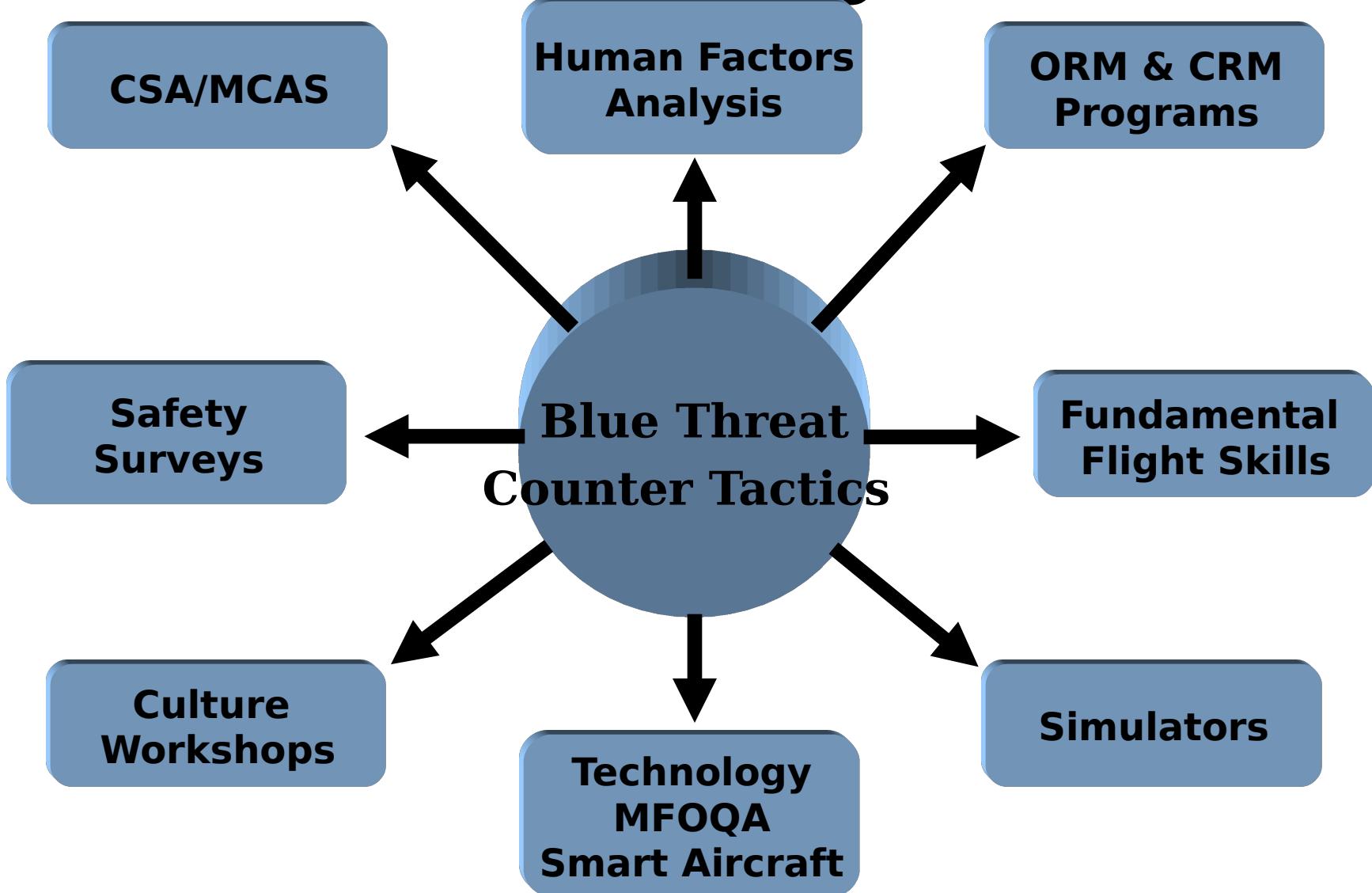
# TAILHOOK RED VS. BLUE THREAT (FY06)

- **RED THREAT:**
  - 0 fatalities
  - 0 aircraft
- vs.
- **BLUE THREAT:**
  - 2 fatalities
  - 8 aircraft destroyed





# Aviation Intervention Strategies





# Blue Threat Analysis



## EA-6B runway mishap

- Mishap flight originated in Whidbey
  - Headed to Jacksonville depot
  - Scheduled stop in Colorado Springs for fuel
- Poor weather conditions
  - Blinding thunderstorm
  - 90 degree crosswind
- Authorized divert to Buckley
  - Divert 60 miles away with perfect weather conditions
  - Chose to continue with Colorado Springs stop
- Mishap flight departed runway
  - Upon landing, plane hydroplaned and slid off runway after brakes locked up.



# Blue Threat Analysis



## AV-8B Approach Mishap

Due to delays, only two flights would be accomplished.

- MCAS Cherry Point to NAS Oceana
- Oceana to Republic Airport, Long Island, NY

GPS approach not authorized

- Mishap wingman downloaded GPS approach for NY airport from civilian aviation website.

MP's aircraft departed overrun

- Continued through gravel trap, then hit ILS antenna and stopped.

N1



Not AMP Representative



Throttle Angle  
MAX



Feet Below PAPI G/S  
474.43

Distance to go  
6.197 NM

Gear Down





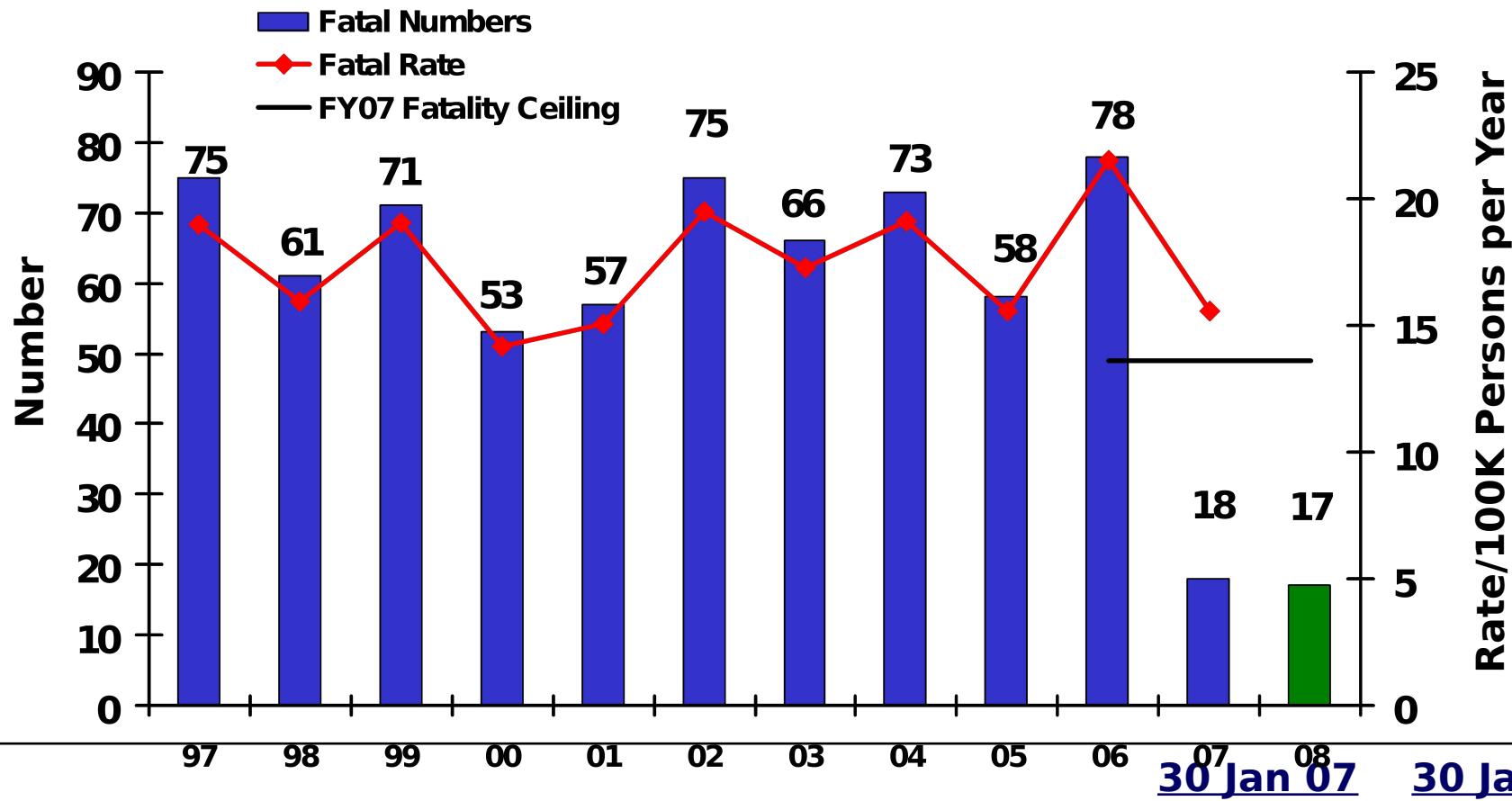
# Survey Takeaways - FY 2006

**Safety Surveys on 80+ aviation commands revealed:**

- 1. ORM implementation**
- 2. Enlisted Safety Committees**
- 3. Hydraulic contamination control and monitoring**
- 4. Ready Service Lockers**
- 5. Ordnance certification program**
- 6. Multiple-Piece Tool accountability**
- 7. IMRL/Calibration program**
- 8. TD-1A/B Tie down chains are not being properly PMS'd**



# PMV FATALITIES



06

**CLASS A FATALITIES/FATALITY RATE FY COMPARISON:** 18 / 15.55 38 / 31.67

**FY06 FATALITIES/FATALITY RATE:** 78 / 21.49

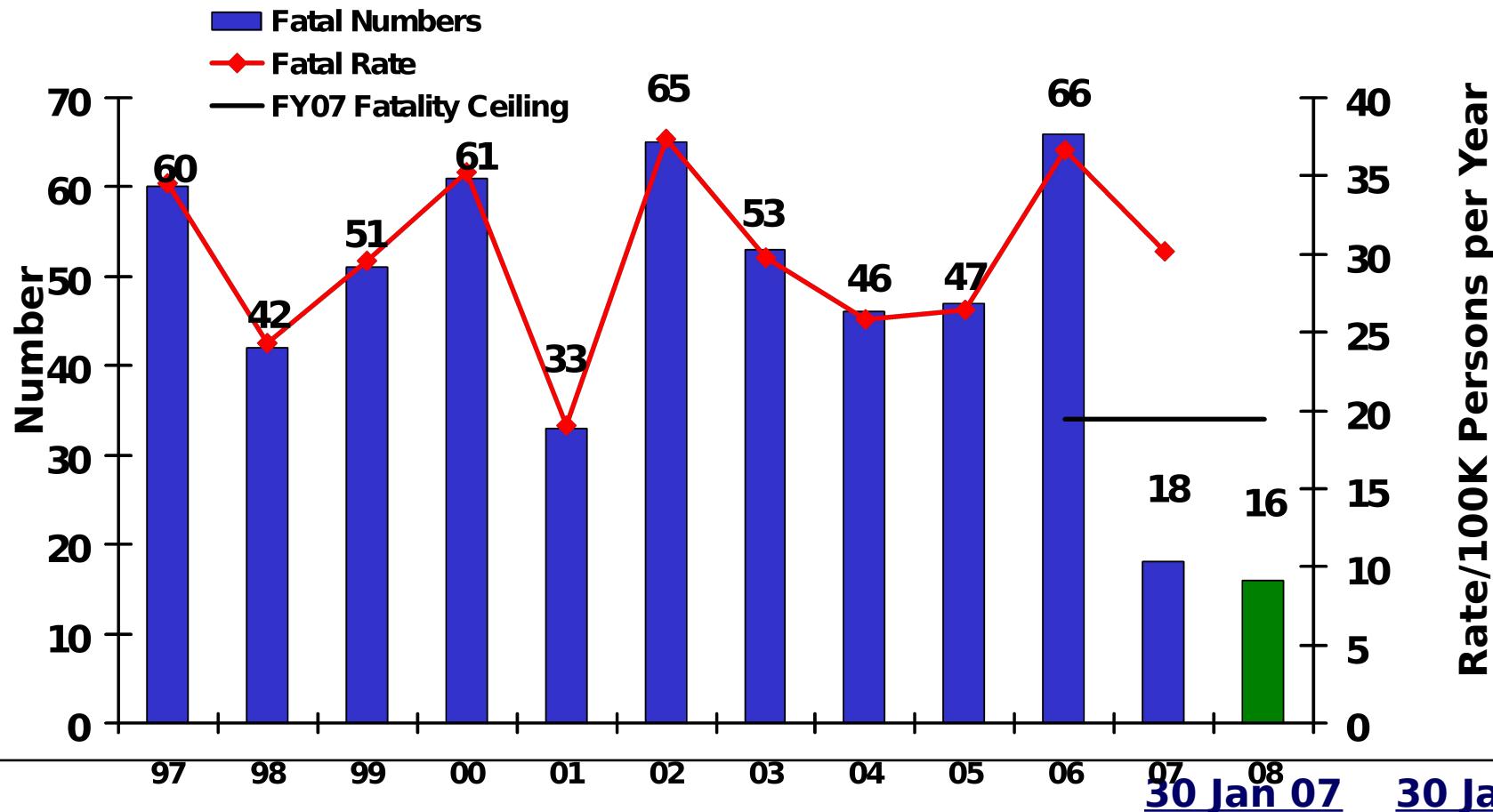
**10-YEAR AVERAGE (FY97-06) FATALITIES/FATALITY RATE:** 66.7 / 17.61



# How Close?



# PMV FATALITIES



06

CLASS A FATALITIES/FATALITY RATE FY COMPARISON: 18 / 30.17 23 / 38.64

FY06 FATALITIES/FATALITY RATE: 66 / 36.66

10-YEAR AVERAGE (FY97-06) FATALITIES/FATALITY RATE: 52.4 / 29.90

ASC February 2007



# 144 USN & USMC PMV Fatalities

=

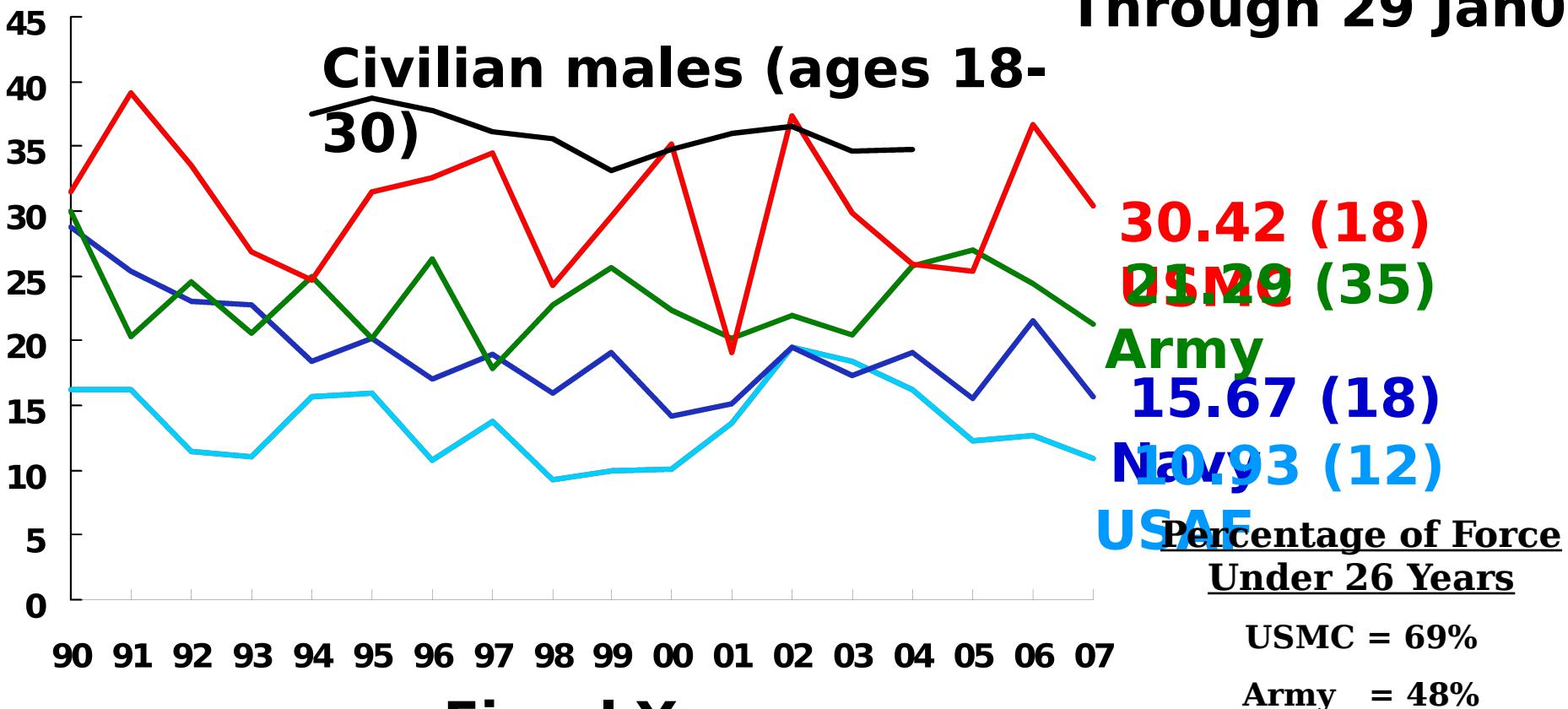
## 7.6 USS Cole Losses





# Armed Forces Traffic Fatality Rates

Through 29 Jan 2007



Rates per 100,000 active duty military personnel per year.



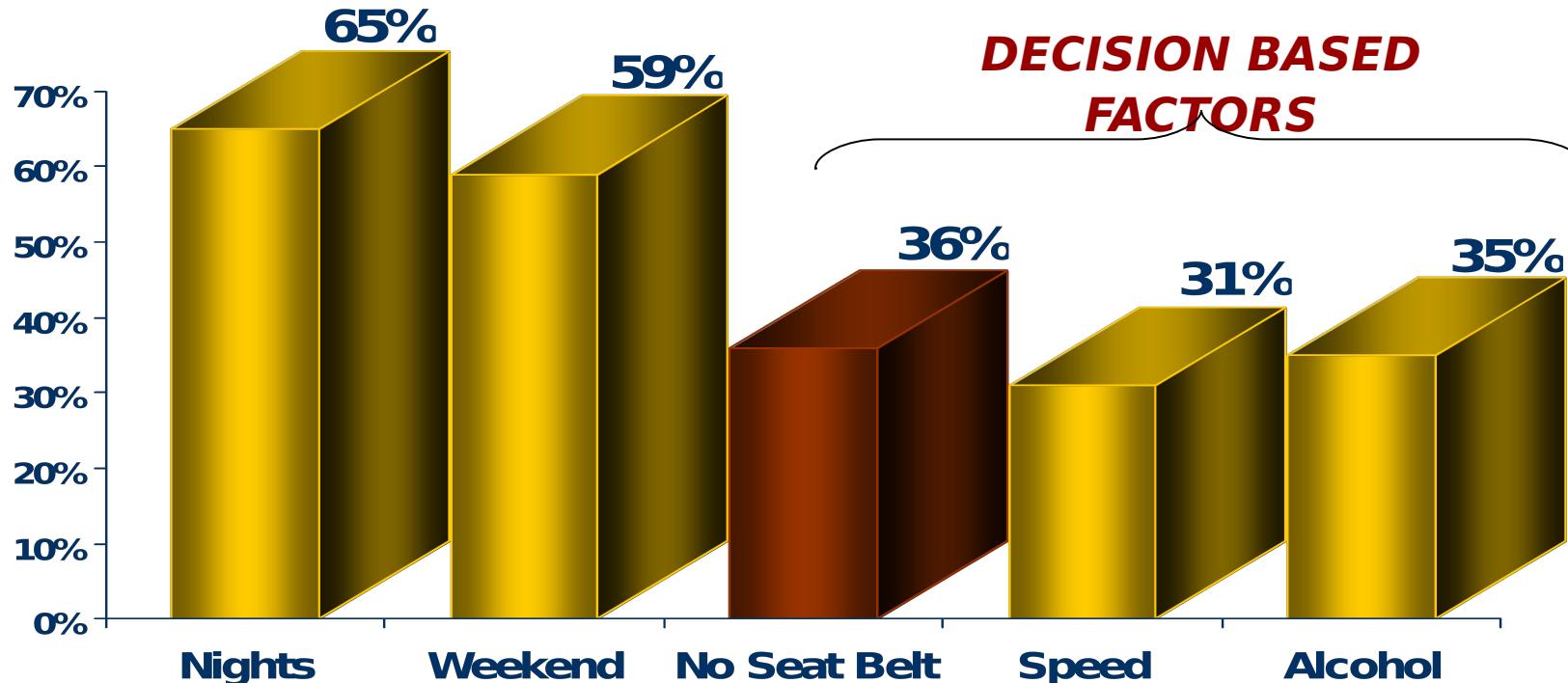
uidman.ca



# Leading Factors in PMV Deaths

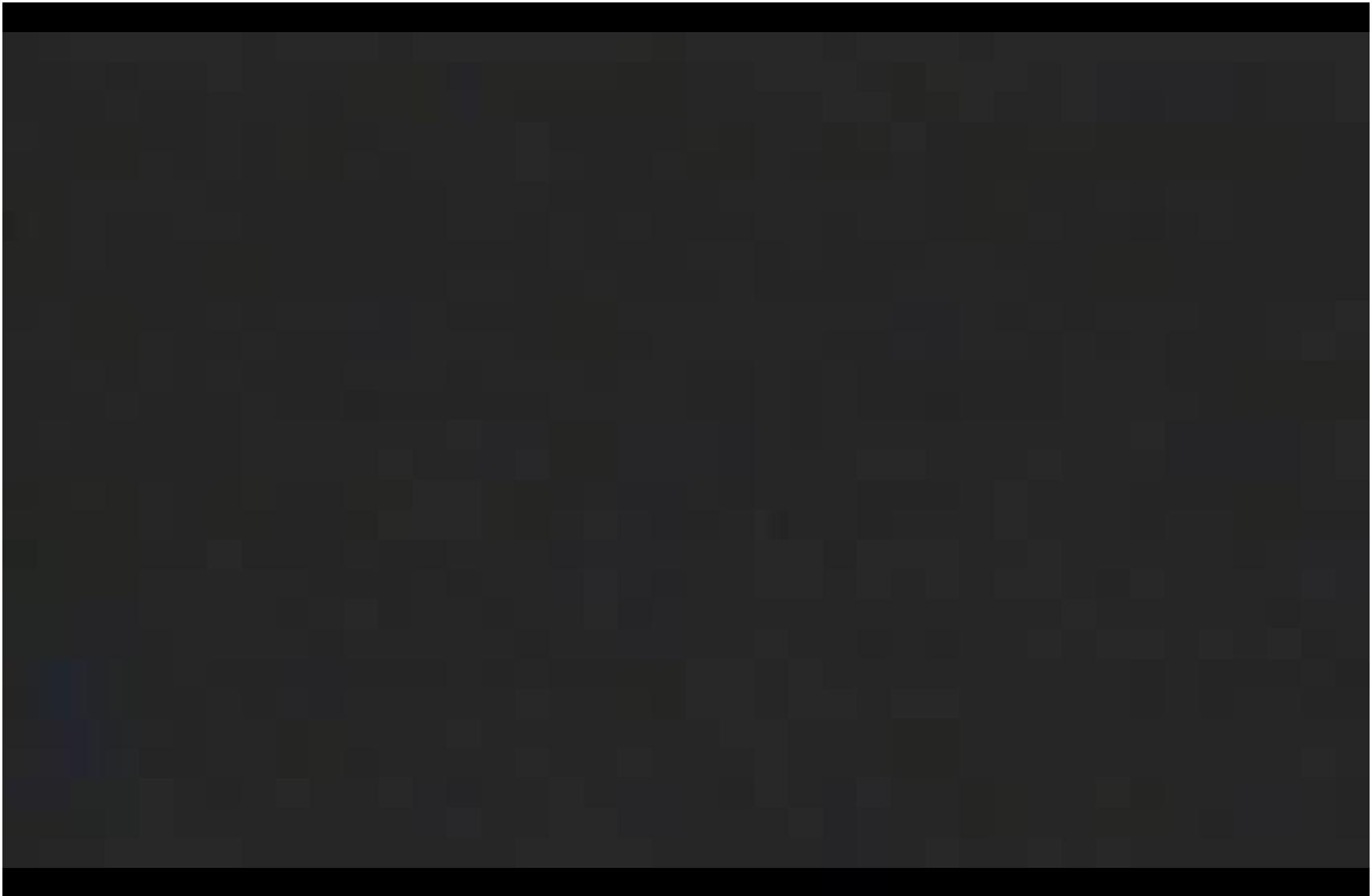
***FY02 - FY06***

**Fatigue** is considered a major factor in traffic deaths, but is under-reported throughout the fleet.





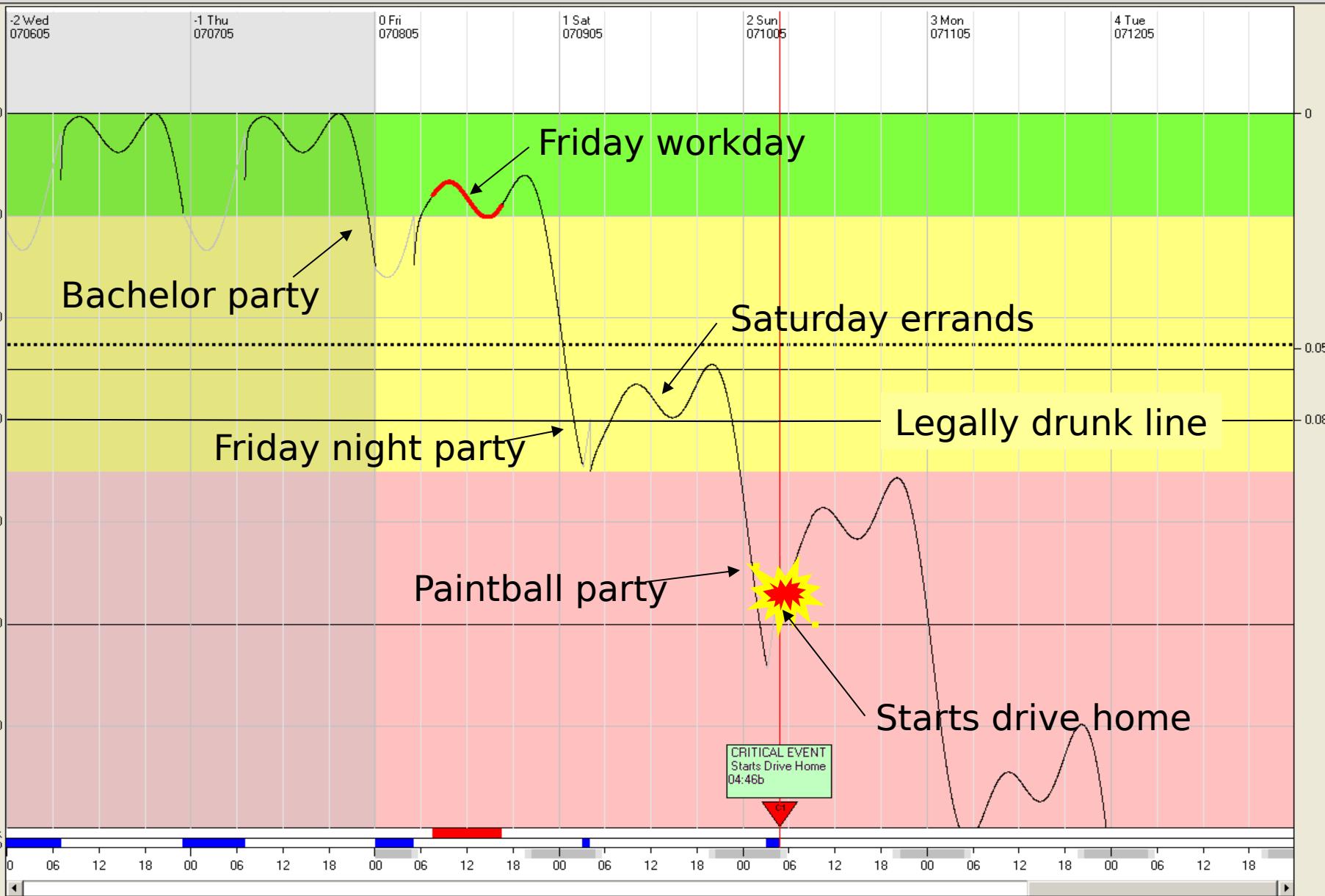
# No One Should Die Because They Weren't Wearing A Seatbelt





# NAVSAFECEN "Friday Funnies"

- An E-5 went to a bachelor party until midnight, slept five hours, then went to work. Toiled all day, then went on leave.
- Drove 120 miles to a party and boogalooed until 3:00 in the morning. Slept for an hour on the way back, ran errands all day, met some friends for a midnight game of paintball that lasted, once again, until that magical hour of 3 a.m.
- Headed home at 4:45 a.m. Pulled over within 30 minutes to stretch and yawn.
- He then got back behind the wheel, fell asleep on a causeway, veered off the road and ran into two guard rails. His pickup truck went airborne and splashed down into the bay below.
- The Sailor came to, released his seat belt, crawled through a broken window, and swam to a pylon. Fortunately, a passing motorist had seen this drama and called emergency services.
- The sound of your vehicle crumpling into an indistinguishable wad around your suddenly wide-awake self is your last choice in an alarm clock. And spending four days in the hospital and two weeks convalescing is a dismal way to spend your two weeks of post-deployment leave.





DRIVECAM

3 Golden  
Eagles

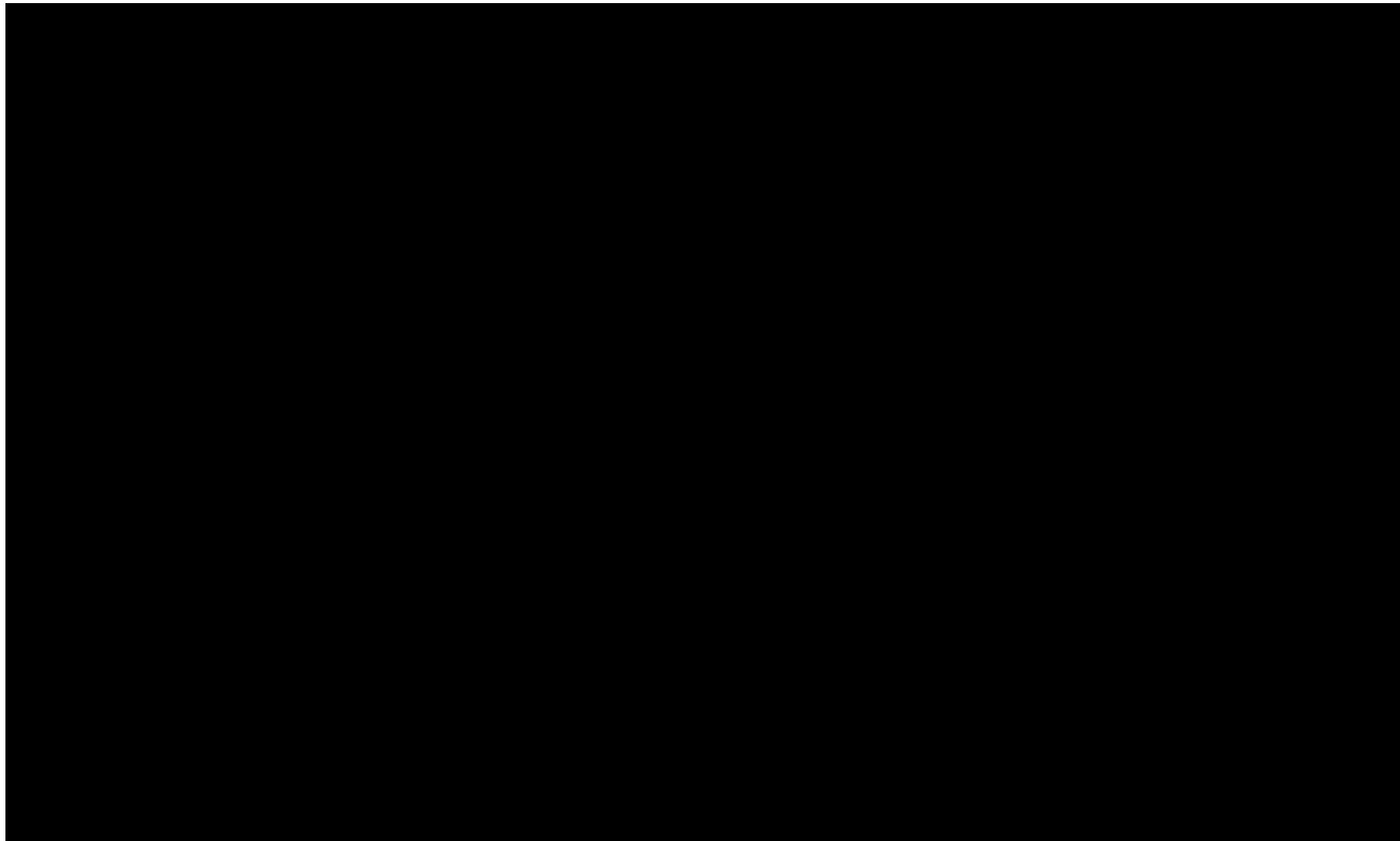


# Best Fleet Practices - PMV

- 1. Risk Management - Find out who is at risk - Help them manage that risk.**
- 2. Letter home to solicit family's help to keep their loved one safe.**
- 3. Traffic Safety Toolbox to provide the necessary tools to reduce mishaps.**
- 4. Engage in partnerships with local community. (Click It or Ticket, You Drink, You Drive, You Lose, MADD)**
- 5. Traffic Safety Across America. (Trained supervisory personnel on drinking and driving, seat belt use, PPE, speed, fatigue)**
- 6. TRiPS**

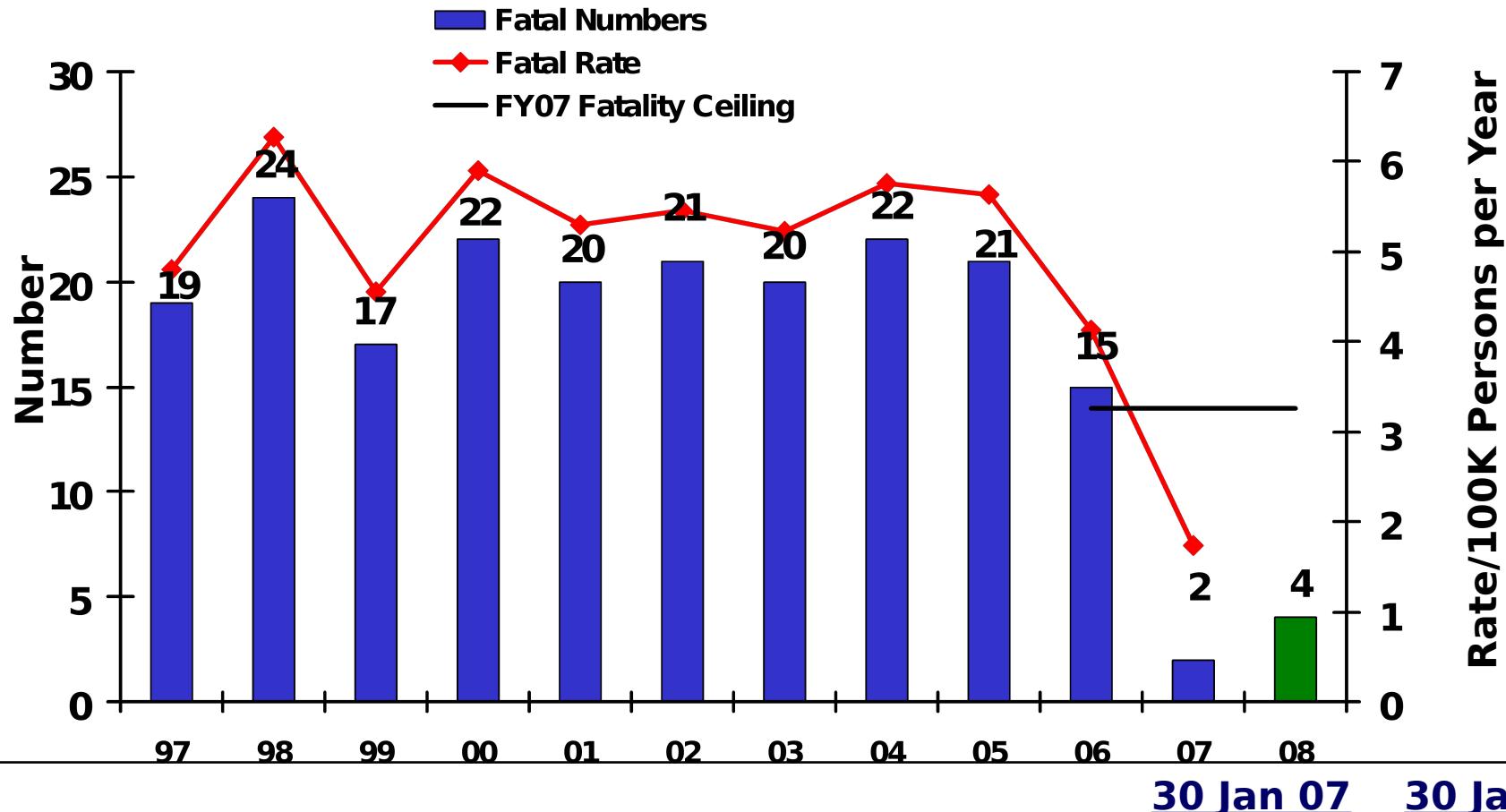


# The Difference of 5 KM





# OFF-DUTY/REC FATALITIES



06

CLASS A FATALITIES/FATALITY RATE FY COMPARISON: 2 / 1.73 6 / 5.00

RATE: 15 / 4.13

10-YEAR AVERAGE (FY97-06) FATALITIES/FATALITY RATE: 20.1 / 5.31

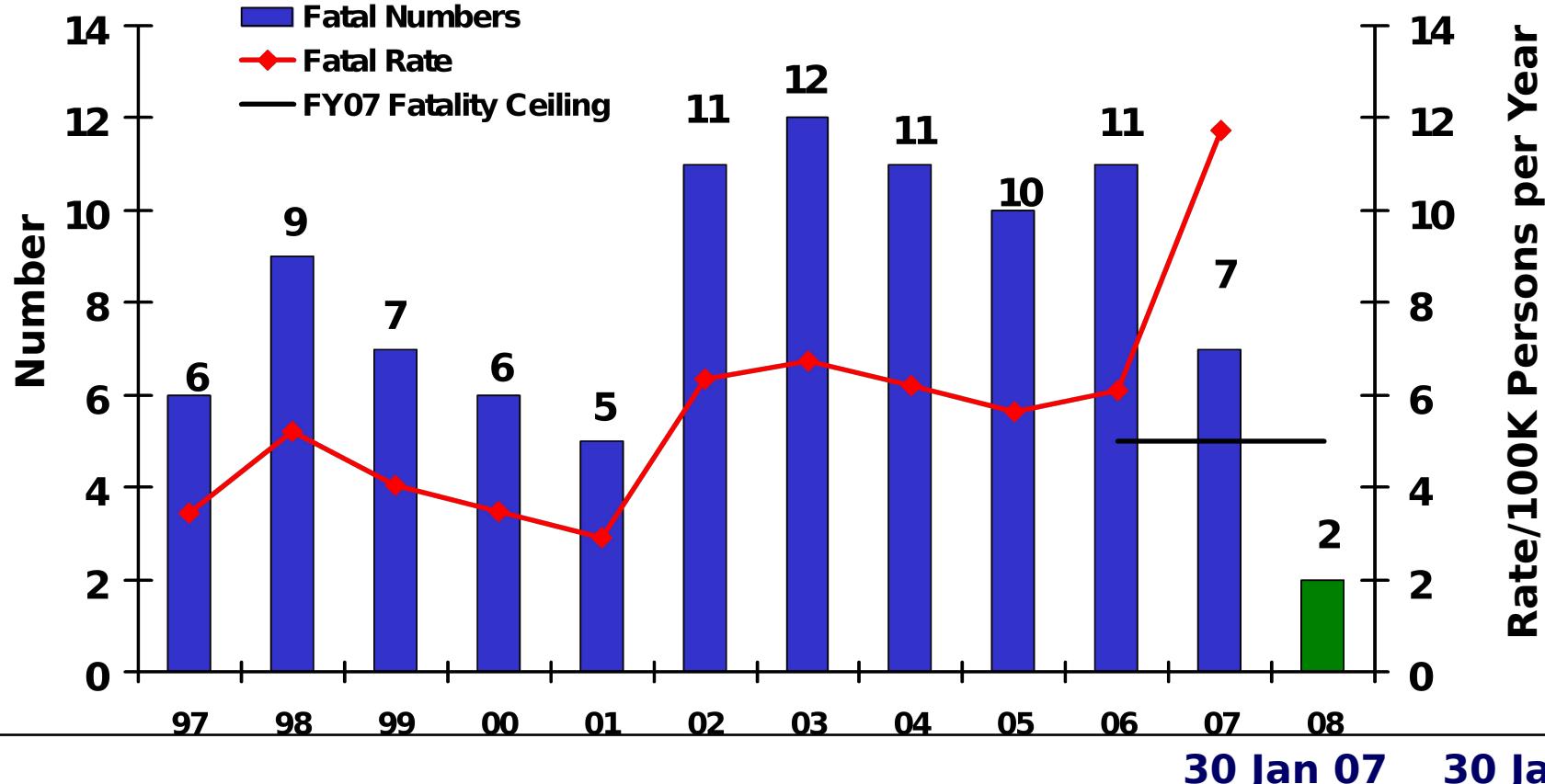


# What Hazards Exist Here?





# OFF-DUTY/REC FATALITIES



06

CLASS A FATALITIES/FATALITY RATE FY COMPARISON: 7 / 11.73 2 / 3.36

FY06 FATALITIES/FATALITY RATE: 11 / 6.11

10-YEAR AVERAGE (FY97-06) FATALITIES/FATALITY RATE: 8.8 / 5.02



# Best Fleet Practices - Off-Duty Rec

- 1. Commanders/Commands and supervisors engaged in Risk Management and RODS program.**
- 2. Individuals use risk management process before participating in their leisure-time activities.**
- 3. RODS Program Managers - Ensure command personnel have seasonal hazard awareness training.**
- 4. Individual Off-Duty Risk Assessment Form - Assess behavior factors and indicators related to off-duty recreation mishaps.**



# Navy ORM Model Manager

- Operational Risk Management – on and off duty
- NSC Spearheads the Navy's Revitalization Effort
  - Time Critical ORM is most relevant, least inculcated
- Coordinate ORM Strategy
  - **Leadership**
    - Developed Navy institutional ORM implementation model
    - Focus leadership on key ORM implementation issues
    - Recommending areas for resource allocation
  - **Education and Training**
    - Partnering with NETC on learning continuum
    - Partnering with accession commands for baseline enhancement
  - **Assessment**
    - Developing model for fleet ORM process assessment
    - Partnering with force commanders/evaluators for incorporation
  - **Feedback**
    - Instituting vehicles for status reports to force commanders
    - Instituting vehicles for Best Practice dissemination

# THE COMMANDING OFFICER





# Recommendations to Improve Safety in Your Command

## 1. Naval Safety Center Website - The Tools Are There!

- Traffic Safety Toolbox
- Web-Enabled Safety System (WESS) - Online mishap reporting / database
- Leave and Liberty Risk Assessments

## 2. Ensure a SOLID Welcome Aboard, Sponsorship/Mentorship Program.

- First impressions are lasting ones
- On and Off duty activities must be addressed

## 3. Identify "high-risk" personnel within command.

- Ensure leadership is engaged with subordinate personnel
- Establish awareness training of high-risk activities and mentoring for high-risk personnel
- Identify motorcycle operators and confirm required training is complete



# Recommendations to Improve Safety in Your Command

## 4. Do the inexpensive things at a minimum.

- Schedule a Culture Workshop / Safety Survey
- Distribute "Safe Ride" taxi cards
- Conduct pre-holiday safety standdowns
- Require leave chit risk assessments prior to authorizing leave

## 5. Maintain high-visibility within command.

- Establish and enforce standards- defined command safety policy
- Treat every mishap the same (PMV/Off-Duty Fatality hurts command as much as material mishap)
- Correct safety deficiencies immediately
- Hold personnel ACCOUNTABLE for failure to follow regulations

## 6. INSPECT for compliance

- Verify command policies are being followed
- Demonstrate daily commitment to safety
- Ensure experience level matches assigned duties



# What We Can Do for You

## Naval Safety Center

Providing aviation, afloat, and shore support to Navy and Marine Corps commands



### NSC at your service... for free!

Let our experience, expertise and unrivaled commitment to safety work for you.

**Mishap Investigations**  
**Surveys**  
**Assist Visits**  
**Data Analysis**  
**Workshops**  
**Publications**  
**Website**  
**Presentations**  
**Exhibits**

Call 757-444-3520 (DSN 564) or visit our website: [www.safetycenter.navy.mil](http://www.safetycenter.navy.mil)

### ON THE ROAD

- Culture workshops
- Unit surveys
- ORM unit training
- Mishap investigations
- USMC MTT seminars
- PCO briefings
- NAVOSHENVTRACEN Safety & Occupational Health Training

### AWARENESS

- Fleet Analysis
- Magazines printed/distributed (473,000 copies)
- Interactive CD's
- Acquisition process in-roads
- Safety advisories
- Customer information requests (3,600+ database queries per month)
- Safety Center web page

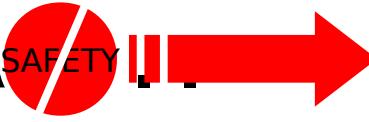


# TRAFFIC RISK PLANNING SYSTEM

- TRiPS
  - Delivered to the Naval Safety Center for Fleet use in 2006; based on ASMIS-2 Army Safety Management Information System
  - A click away on  
**<http://www.safetycenter.navy.mil>**
  - Provides ORM trip assessment and actual mishap cases relevant to planned trip. Risk values/models based on NTSB data
  - Trip map, times, distances and other products improve ***supervisor interaction***; CBT course content designed to help change behavior



# Where We're Going



## RISK MANAGEMENT

- **ORM - Revitalization**
  - NSC Model Manager
  - Common Model
  - Time Critical ORM
  - Assessments
- **Motor vehicle mishap reduction initiatives**
  - USN / USMC IG effort
  - ID high-risk Sailors / Marines
  - DUI / DWI NJP guidance
  - Driver-training continuum
  - Motorcycle training
- **Executive Safety Board**
  - USN / USMC
- **WEss Upgrades**



# A MISHAP-FREE NAVY+MARINE CORPS *Team*



# NSC Website: Your Valuable Resource

**www.safetycenter.  
navy.mil**

**Work, Play, Live ... Safely!**

**Naval Safety Center**

[Site Map](#) | [Search](#)

[Afloat](#) | [Ashore](#) | [Aviation](#) | [Media](#) | [OSH](#) | [Services](#) | [Training](#) | [Popular](#)

**Resources**

- TRiPS (Travel Risk Planning System)
  - Navy
  - Marines
- Executive Summary
- Safety Toolbox
- 75% Mishap Reduction
- Presentations
- Traffic Safety Toolbox
- Success Stories
- Statistics
- Seasonal Resources
- POD Notes, Slogans

**Quick Links**

- Photo of the Week
- Friday Funnies
- Safety School
- Acquisition Safety
- Safety Surveys
- Culture Workshops
- Navy / NSC FOIA Request
- Secure Site (PKI)

**Staff**

- Biographies / Mission
- Directory / Contact us

Naval Safety Center,  
375 A St., Norfolk, VA 23511  
Contact the  
Webmaster or  
Public Affairs Officer

Last Updated: January 17, 2007

**Traffic Death Update**

On January 13, an AO3 from HS-7 was killed in a motorcycle wreck on an interstate near Jacksonville, Fla. He was apparently speeding.

[PMV Stats](#) | [PMV Narratives](#)

Army and Marine Corps PMV Deaths FY07 to date: **35**

**In the Spotlight**

What's New	More Articles
<ul style="list-style-type: none"><li>• <a href="#">Read the latest Summary of Mishaps (a.k.a. the Friday Funnies)</a></li><li>• <a href="#">Aviation 3750 - A special issue of Mech and Approach</a></li></ul>	<ul style="list-style-type: none"><li>• Alcohol Effects -- <a href="#">It's Party Time</a></li><li>• <a href="#">New! Navy and Marine Corps Safety Planner 2007 &amp; 2007 Safety Planner Survey</a></li></ul>

**Initiatives and Tools**

This is an official U.S. Navy Web site.

Please read our [privacy policy](#) | [link disclaimer](#) | [privacy advisory](#) | [accessibility info](#)



# **Navy Mishap Free Squadrons (FY-06)**

<b>HC-11</b>	<b>HC-85</b>
<b>HSC-22</b>	<b>HSC-26</b>
<b>HSM-41</b>	<b>HX-21</b>
<b>VAW-115</b>	<b>VAW-121</b>
<b>VAW-125</b>	<b>VAW-126</b>
<b>VFA-132</b>	<b>VFA-15</b>
	<b>213</b>
<b>VFA-31</b>	<b>VFA-32</b>
<b>VP-62</b>	<b>VPU-1</b>
<b>VR-48</b>	<b>VR-52</b>
<b>VR-58</b>	<b>VR-59</b>
<b>VS-24</b>	<b>VT-3</b>
<b>VT-9</b>	<b>VX-1</b>

<b>HS-2</b>	<b>HS-3</b>
<b>HSL-42</b>	<b>HSL-60</b>
<b>VAQ-136</b>	<b>VAW-113</b>
<b>VAW-122</b>	<b>VAW-124</b>
<b>VAW-77</b>	<b>VAW-78</b>
<b>VFA-204</b>	<b>VFA-</b>
<b>VFA-87</b>	<b>VP-1</b>
<b>VR-24</b>	<b>VR-46</b>
<b>VR-54</b>	<b>VR-55</b>
<b>VR-62</b>	<b>VR-64</b>
<b>VT-35</b>	<b>VT-4</b>
<b>VX-20</b>	<b>VX-30</b>



# Questions?

